

04-062 Sequence Listing
SEQUENCE LISTING

<110> TAKARA BIO INC.
<120> Composition for suppressing human Flt-3 function
<130> 04-062-PCTJP
<150> JP2003-350253
<151> 2003-10-09
<160> 40
<170> PatentIn version 3.3
<210> 1
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of ATP-binding site.

<400> 1
aaggtaactag gatcagggtgc t 21

<210> 2
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ1-S. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 2
gguacuagga ucaggugc t 21

<210> 3
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ1-AS. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 3
agcaccugau ccuaguacct t 21

<210> 4
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of TK domain.

<400> 4
aacaggagtc tcaatccagg t 21

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<210> 5
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ2-S. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 5
caggagucuc aauccaggut t 21

<210> 6
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ2-AS. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 6
accuggauug agacuccugt t 21

<210> 7
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 7
aatatgaata tgatctcaaa t 21

<210> 8
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ3-S. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 8
uaugaauaaug aucucaaaut t 21

<210> 9
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Designated as SEQ3-AS. "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 9

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auuugagauc auauucauat t

21

<210> 10
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> A partial cDNA sequence of bcr/abl 'chimera domain.

<400> 10
aagcagagtt caaaagccu u

21

<210> 11
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 11
gcagaguuca aaagccuut t

21

<210> 12
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 12
aaggccuuu gaacucugt t

21

<210> 13
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer FLT11F for amprifying a gene encoding FLT3.

<400> 13
gcaattttagg tatgaaagcc agc

23

<210> 14
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer FLT12R for amprifying a gene encoding FLT3.

<400> 14
ctttcagcat tttgacggca acc

23

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<210> 15
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer G1 for amprifying a gene encoding GAPDH.

<400> 15
caacagcctc aagatcatca gc 22

<210> 16
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> PCR primer G2 for amprifying a gene encoding GAPDH.

<400> 16
ttcttagacgg caggtcaggt c 21

<210> 17
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3SI1F for expressing siRNA for ATP-binding domain. "the region of nucleotides 1 to 5 is BamHI restriction site - the region of nucleotides 26 to 34 is loop site - the region of nucleotides 54 to 59 is RNA polymerase III terminator

<400> 17
gatcccggtta ctaggatcag gtgctttcaa gagaaggcacc tgatcctagt accttttttg 60
gaaa 64

<210> 18
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3SI1R for expressing siRNA for ATP-binding domain. "the region of nucleotides 1 to 5 is HindIII restriction site - the region of nucleotides 10 to 15 is RNA polymerase III terminator site - the region of nucleotides 35 to 43 is loop

<400> 18
agctttcca aaaaaggtac taggatcagg tgcttctctt gaaaggcacct gatcctagta 60
ccgg 64

<210> 19

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<211> 64

<212> DNA

<213> Artificial Sequence

<220>

<223> Expression cassette FLT3CON1F for expressing control sequence.
"the region of nucleotides 1 to 5 is BamHI restriction site - the
region of nucleotides 26 to 34 is loop site - the region of
nucleotides 54 to 59 is RNA polymerase III terminator site"

<400> 19

gatcccgag tcgtagctgc agtattcaa gagaatactg cagctacgac tcctttttg 60

gaaa 64

<210> 20

<211> 64

<212> DNA

<213> Artificial Sequence

<220>

<223> Expression cassette FLT3CON1R for expressing control sequence.
"the region of nucleotides 1 to 5 is HindIII restriction site -
the region of nucleotides 10 to 15 is RNA polymerase III
terminator site - the region of nucleotides 35 to 43 is loop

<400> 20

agctttcca aaaaaggagt cgtagctgca gtattctttt gaaatactgc agctacgact 60

ccgg 64

<210> 21

<211> 64

<212> DNA

<213> Artificial Sequence

<220>

<223> Expression cassette FLT3SI3F for expressing siRNA for FLT3/ITD
domain. "the region of nucleotides 1 to 5 is BamHI restriction
site - the region of nucleotides 26 to 34 is loop site - the
region of nucleotides 54 to 59 is RNA polymerase III terminator

<400> 21

gatccctatg aatatgatct caaatttcaa gagaatttga gatcatattc atatttttg 60

gaaa 64

<210> 22

<211> 64

<212> DNA

<213> Artificial Sequence

<220>

<223> Expression cassette FLT3SI3R for expressing siRNA for FLT3/ITD
domain. "the region of nucleotides 1 to 5 is HindIII restriction
site - the region of nucleotides 10 to 15 is RNA polymerase III
terminator site - the region of nucleotides 35 to 43 is loop

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<400> 22
agctttcca aaaaatatga atatgatctc aaattctctt gaaatttgag atcatattca 60
tagg 64

<210> 23
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3CON3F for expressing control sequence.
"the region of nucleotides 1 to 5 is BamHI restriction site - the
region of nucleotides 26 to 34 is loop site - the region of
nucleotides 54 to 59 is RNA polymerase III terminator site"

<400> 23
gatcccaata atttgcttca aagatttcaa gagaatctt gaagcaaattt attttttttg 60
gaaa 64

<210> 24
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> Expression cassette FLT3CON3R for expressing control sequence.
"the region of nucleotides 1 to 5 is HindIII restriction site -
the region of nucleotides 10 to 15 is RNA polymerase III
terminator site - the region of nucleotides 35 to 43 is loop

<400> 24
agctttcca aaaaaaataa tttgcttcaa agattctctt gaaatcttg aagcaaatta 60
ttgg 64

<210> 25
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> 5' sequencing primer.

<400> 25
taatacgact cactataggg 20

<210> 26
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> 3' sequencing primer.

<400> 26

aggcgattaa gttgggta

18

<210> 27
 <211> 144
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Juxtamembrane domain.

<400> 27		
tgtcacaagt acaaaaagca atttaggtat gaaagccagc tacagatggt acaggtgacc	60	
ggctcctcag ataatgagta cttctacgtt gatttcagag aatatgaata tgatctcaa	120	
tgggagttc caagagaaaa ttta	144	

<210> 28
 <211> 471
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Tyrosine kinase domain.

<400> 28		
acgcaacagc ttatgaaatt agcaaaacag gagtctcaat ccaggttgcc gtcaaaatgc	60	
tgaaagaaaa agcagacagc tctgaaagag aggcaactcat gtcagaactc aagatgatga	120	
cccaagctggg aagccacgag aatattgtga acctgctggg ggcgtgcaca ctgtcaggac	180	
caatttactt gattttgaa tactgttgct atggtgatct tctcaactat ctaagaagta	240	
aaagagaaaa atttcacagg acttggacag agatttcaa ggaacacaat ttcaagtttt	300	
accccacttt ccaatcacat ccaaattcca gcatgcctgg ttcaagagaa gttcagatac	360	
acccggactc ggttcaaatc tcagggcttc atggaaattc atttcactct gaagatgaaa	420	
ttgaatatga aaaccaaaaa aggctgaaag aagaggagga cttgaatgtc	471	

<210> 29
 <211> 517
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> ATP-binding domain.

<400> 29		
gagtttggga aggtactagg atcaggtgct tttggaaaag tgatgaacgc aacagcttat	60	
ggaatttagca aaacaggagt ctcaatccag gttgccgtca aaatgctgaa agaaaaagca	120	
gacagctctg aaagagaggc actcatgtca gaactcaaga tgatgaccca gctggaaagc	180	
cacgagaata ttgtgaacct gctggggcg tgcacactgt caggaccaat ttacttgatt	240	
tttgaatact gttgctatgg tgatcttctc aactatctaa gaagtaaaag agaaaaattt	300	

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cacaggactt ggacagagat tttcaaggaa cacaattca gttttaccc cactttccaa 360
tcacatccaa attccagcat gcctgggtca agagaagttc agatacaccc ggactcggat 420
caaatctcag ggcttcatgg gaattcattt cactctgaag atgaaattga atatgaaaac 480
caaaaaaggc tggagaaga ggaggacttg aatgtgc 517

<210> 30
<211> 21
<212> DNA
<213> Artificial

<220>
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 30
gguuauuguac aggaacgcatt 21

<210> 31
<211> 21
<212> DNA
<213> Artificial

<220>
<223> "nucleotides 20 and 21 are deoxyribonucleotides - other nucleotides are ribonucleotides."

<400> 31
ugcguuccug uacauaacct t 21

<210> 32
<211> 19
<212> DNA
<213> Artificial

<220>
<223> A partial cDNA sequence of ATP-binding domain.

<400> 32
ggtaacttagga tcaggtgct 19

<210> 33
<211> 19
<212> RNA
<213> Artificial

<220>
<223> siRNA

<400> 33
gguacuagga ucaggugcu 19

<210> 34
<211> 19
<212> RNA

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<213> Artificial

<220>

<223> siRNA

<400> 34

agcaccugau ccuaguacc

19

<210> 35

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of TK domain.

<400> 35

caggagtctc aatccaggt

19

<210> 36

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 36

caggagucuc aauccagggu

19

<210> 37

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 37

accuggauug agacuccug

19

<210> 38

<211> 19

<212> DNA

<213> Artificial

<220>

<223> A partial cDNA sequence of FLT3/ITD domain.

<400> 38

tatgaatatg atctcaaat

19

<210> 39

<211> 19

<212> RNA

<213> Artificial

<220>

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<223> siRNA

<400> 39

uaugaaaua^g aucucaaau

19

<210> 40

<211> 19

<212> RNA

<213> Artificial

<220>

<223> siRNA

<400> 40

auuugagaga^uc auauucaua

19